

QY 841 CAACTTCCAGCATCCCTGGGCGCTCAGACATAGATCTCATCCCCACGGAAGGGTGAAG 900  
Db 841 CAACTTCCAGCATCCCTGGGCGCTCAGACATAGATCTCATCCCCACGGAAGGGTGAAG 900  
QY 901 CCTCGTCCACCTCCGATCCACAGCTCTGCCTGACTCCACTGAAGCAAAACACACATCA 960  
Db 901 CCTCGTCCACCTCCGATCCACAGCTCTGCCTGACTCCACTGAAGCAAAACACACATCA 960  
QY 961 CTGAGGTCAAGCTCTGCCGAGACCTGTCCACAGCGGCACACAGAGTCACTGCAC 1020  
Db 961 CTGAGGTCAAGCTCTGCCGAGACCTGTCCACAGCGGCACACAGAGTCACTGCAC 1020  
QY 1021 CTCATGCCACGGTTGGGACCCCTCAGTGGAGCTCTGGTACAGTTAGCAGGAATCCCTGGAAG 1080  
Db 1021 CTCATGCCACGGTTGGGACCCCTCAGTGGAGCTCTGGTACAGTTAGCAGGAATCCCTGGAAG 1080  
QY 1081 CACCCGGGCGCACAGCCCTCAGTGGAGCTCTGGTACAGTTAGCAGGAATCCCTGGAAG 1140  
Db 1081 CACCCGGGCGCACAGCCCTCAGTGGAGCTCTGGTACAGTTAGCAGGAATCCCTGGAAG 1140  
QY 1141 AAACCTCAGCCCTCTCTGTTGAGACACCAAGTACGTCAAAAGTCTCAGGAGCAGCTCCGG 1200  
Db 1141 AAACCTCAGCCCTCTCTGTTGAGACACCAAGTACGTCAAAAGTCTCAGGAGCAGCTCCGG 1200  
QY 1201 TCTCCATAGAGCTGGTTCAGCAGTGGGCAAAACAACTTCTTTGCTGGGAGCTCTGCTT 1260  
Db 1201 TCTCCATAGAGCTGGTTCAGCAGTGGGCAAAACAACTTCTTTGCTGGGAGCTCTGCTT 1260  
QY 1261 CCTCTACAGCCCTCTCGGAAGCGCCCTCAAGAACTTCAACCCCTTCAGAGACACCGACCA 1320  
Db 1261 CCTCTACAGCCCTCTCGGAAGCGCCCTCAAGAACTTCAACCCCTTCAGAGACACCGACCA 1320  
QY 1321 TGGACATCGCAACCAAGGGGCCCTTCCACACAGCAGGACCTTCTCTTCTGTCCTC 1380  
Db 1321 TGGACATCGCAACCAAGGGGCCCTTCCACACAGCAGGACCTTCTCTTCTGTCCTC 1380  
QY 1381 CGACTACAAACCAACAGCAGCCGAGGAGCAACAGCACCTTAGCAAGATCAACCTCAG 1440  
Db 1381 CGACTACAAACCAACAGCAGCCGAGGAGCAACAGCACCTTAGCAAGATCAACCTCAG 1440  
QY 1441 CGRAGACCAGATGAAGCCCAACAGCCACGCCACGACTGCCGGACGAGGCCGACCA 1500  
Db 1441 CGRAGACCAGATGAAGCCCAACAGCCACGCCACGACTGCCGGACGAGGCCGACCA 1500  
QY 1501 AGACGTGAGTGCAGGTGAAATGGAGGTTCTCTCTCTGCGGTGAGTGTGCTTCCC 1560  
Db 1501 AGACGTGAGTGCAGGTGAAATGGAGGTTCTCTCTCTGCGGTGAGTGTGCTTCCC 1560  
QY 1561 GGAAGACCTCACTGACCCCAAGAGTGGCAGAAAGGTGATGACAGAGCTCCACCGGGA 1620  
Db 1561 GGAAGACCTCACTGACCCCAAGAGTGGCAGAAAGGTGATGACAGAGCTCCACCGGGA 1620  
QY 1621 CCACGCCACGCGCCTCACTTCCAGGTCTCTCTTACTGCGGTGTCAGGAGAGGTAA 1680  
Db 1621 CCACGCCACGCGCCTCACTTCCAGGTCTCTCTTACTGCGGTGTCAGGAGAGGTAA 1680  
QY 1681 ATCAGCTGCAGCCAGGATGTCCTGATGCCAAAGAGGCTGCTGCCCTAGCCTGGGCC 1740  
Db 1681 ATCAGCTGCAGCCAGGATGTCCTGATGCCAAAGAGGCTGCTGCCCTAGCCTGGGCC 1740  
QY 1741 CCCACCGACAGACTGCAGCTGCGTTACTGTGTGAGAGTACCCAGAGGTTCCCATGAA 1800  
Db 1741 CCCACCGACAGACTGCAGCTGCGTTACTGTGTGAGAGTACCCAGAGGTTCCCATGAA 1800  
QY 1801 GGGCAGCATGTCCAAGCCCTTAACCCAGATGTGGCAACAGGACCCCTCGCTCACATCCAC 1860  
Db 1801 GGGCAGCATGTCCAAGCCCTTAACCCAGATGTGGCAACAGGACCCCTCGCTCACATCCAC 1860  
QY 1861 CGGAGTGTATGTATGGGAGGGGCTTCACTGTTCACAGAGGTGTCTTGGACTCACCTT 1920  
Db 1861 CGGAGTGTATGTATGGGAGGGGCTTCACTGTTCACAGAGGTGTCTTGGACTCACCTT 1920  
QY 1921 GGCACATGTTCTGTGTTTCAGTAAAGAGAGACCTGATCAACCCATCTGTGTGCTTCCATCC 1980

Db 1921 GGCACATGTTCTGTGTTTCAGTAAAGAGAGACCTGATCACCCATCTGTGTGCTTCCATCC 1980  
QY 1981 TGCATTAAATTCACCTCAGTGTGGCCCAAAAAA 2015  
Db 1981 TGCATTAAATTCACCTCAGTGTGGCCCAAAAAA 2015  

RESULT 15  
AAC66892  
ID AAC66892 standard; cDNA; 2016 BP.

XX AAC66892;  
AC AAC66892;  
XX  
DT 27-MAR-2001 (first entry)  
XX Human EXMAD-3 coding sequence SEQ ID NO: 28.  
DE Extracellular matrix and adhesion-associated protein; EXMAD; cancer;  
XX inflammation; reproductive disorder; cardiovascular disorder;  
KW immune disorder; musculoskeletal disorder; developmental disorder;  
KW gastrointestinal disorder; cell proliferation disorder; ss.  
XX Homo sapiens.  
OS  
XX WO200068380-A2.  
PN  
XX 16-NOV-2000.  
PD  
XX 10-MAY-2000; 2000WO-US12811.  
PF  
XX 11-MAY-1999; 99US-0133643.  
PR 23-AUG-1999; 99US-0150409.  
XX  
PA (INCY-) INCYTE GENOMICS INC.  
XX  
XX Bandman O, Hillman JL, Tang YT, Lal P, Yue H, Baughn MR, Lu DAM;  
PI Azimzai Y;  
XX  
DR WPI; 2001-007395/01.  
DR P-PSDB; AAB27225.  
XX  
PT Isolated polynucleotide encoding extracellular matrix or  
PT adhesion-associated protein (EXMAD) useful for diagnosing, treating, or  
PT preventing disorders associated with expression of EXMAD such as  
PT proliferative, immune and genetic disorders -  
XX  
PS Claim 4; Page 114; 129pp; English.  
XX  
CC The present invention provides the protein and coding sequences for 25  
CC novel extracellular matrix and adhesion-associated proteins (EXMADs).  
CC These are designated EXMAD-1, EXMAD-2, EXMAD-3, EXMAD-4, EXMAD-5,  
CC EXMAD-6, EXMAD-7, EXMAD-8, EXMAD-9, EXMAD-10, EXMAD-11, EXMAD-12,  
CC EXMAD-13, EXMAD-14, EXMAD-15, EXMAD-16, EXMAD-17, EXMAD-18, EXMAD-19,  
CC EXMAD-20, EXMAD-21, EXMAD-22, EXMAD-23, EXMAD-24 and EXMAD-25. They are  
CC useful in the prevention and treatment of cancers, cell proliferation,  
CC cardiovascular, reproductive, immune, musculoskeletal, developmental and  
CC gastrointestinal disorders and inflammation.  
XX  
SQ Sequence 2016 BP; 482 A; 678 C; 504 G; 352 T; 0 other;  
Query Match 99.8%; Score 2010.8; DB 22; Length 2016;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2012; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 2 GAAAAGGTACCCGAGAGACAGCCAGTCTGTGGAGCAGCGGTGGCCGGTAGGAT 61  
Db 1 GAAAAGGTACCCGAGAGACAGCCAGTCTGTGGAGCAGCGGTGGCCGGTAGGAT 60  
QY 62 GGGCTGTCTCTGGGCTGTGGCTCTGCCCTTTCTTCTTCTGTGGAGGTTGGGTTCTC 121  
Db 61 GGGCTGTCTCTGGGCTGTGGCTCTGCCCTTTCTTCTTCTGTGGAGGTTGGGTTCTC 120

QY 122 TGGGAGCTCTGAGGCCCGCCAGCACCCGCGAGAGCAGACACTGCGATGACAACCGGAGCAC 181  
Db 121 TGGGAGCTCTGAGGCCCGCCAGCACCCGCGAGAGCAGACACTGCGATGACAACCGGAGCAC 180  
QY 182 AGAAGTGCCCGCTATGACTCTAGCACCGGGCCACCGCGCTCTGGAACCTCAAAAGCTGAG 241  
Db 181 AGAAGTGCCCGCTATGACTCTAGCACCGGGCCACCGCGCTCTGGAACCTCAAAAGCTGAG 240  
QY 242 CGCTGAGACCTCTTCTAGGGCCCTCAACCCCGAGCGCGGCCCTATCCAGAAAGCAGACACAG 301  
Db 241 CGCTGAGACCTCTTCTAGGGCCCTCAACCCCGAGCGCGGCCCTATCCAGAAAGCAGACACAG 300  
QY 302 GGGAGCCAAAGAAATTTCCCTGCAAGAGAGACACGAGAGTTTCAAAAAACATCTCCCAA 361  
Db 301 GGGAGCCAAAGAAATTTCCCTGCAAGAGAGACACGAGAGTTTCAAAAAACATCTCCCAA 360  
QY 362 CTTTATGCTGCTGATCGCCACCTCCGTGGAGACATCAGCCCGCCAGTGGCAGCCCGAGGG 421  
Db 361 CTTTATGCTGCTGATCGCCACCTCCGTGGAGACATCAGCCCGCCAGTGGCAGCCCGAGGG 420  
QY 422 AGCTGGAATGACACAGTTTCAAGACCATCACAGGCGATGATCCGAGGAAGCCATCTTTGA 481  
Db 421 AGCTGGAATGACACAGTTTCAAGACCATCACAGGCGATGATCCGAGGAAGCCATCTTTGA 480  
QY 482 CACCTTTTGACCCGATGACAGCTCTGAAGAGGCAAGACACTCAAAATGGACATATTGAC 541  
Db 481 CACCTTTTGACCCGATGACAGCTCTGAAGAGGCAAGACACTCAAAATGGACATATTGAC 540  
QY 542 ATTGGCTCACACCTCACAGAAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCTCTTCCGA 601  
Db 541 ATTGGCTCACACCTCACAGAAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCTCTTCCGA 600  
QY 602 CGGCCCCCATCCAGTCAATCACCCCGTCAAGGGCCTCAGAGAGCAGCGCTCTTCCGACGG 661  
Db 601 CGGCCCCCATCCAGTCAATCACCCCGTCAAGGGCCTCAGAGAGCAGCGCTCTTCCGACGG 660  
QY 662 CCCCCATCCAGTCAATCACCCCGTCAAGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCC 721  
Db 661 CCCCCATCCAGTCAATCACCCCGTCAAGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCC 720  
QY 722 CCATCCAGTCAATCACCCCGTCAATGGTCCCCGGGATCTGATGTCACTCTCCTCGTGAAGC 781  
Db 721 CCATCCAGTCAATCACCCCGTCAATGGTCCCCGGGATCTGATGTCACTCTCCTCGTGAAGC 780  
QY 782 CCTGGTGAATGTCAAAACATCGAGTTATTAATTGAGCATCACAGAAATAGAAACAAC 841  
Db 781 CCTGGTGAATGTCAAAACATCGAGTTATTAATTGAGCATCACAGAAATAGAAACAAC 840  
QY 842 AACTTCCAGCATCCTGGGGCCTCAGACATAGATCTCATCCCCCAGGAGGGTGAAGGC 901  
Db 841 AACTTCCAGCATCCTGGGGCCTCAGACATAGATCTCATCCCCCAGGAGGGTGAAGGC 900  
QY 902 CTCGTCCACCTCCGATCCACAGCTCTGCTGACTGCACTGAAGCAAAACCCACATCAC 961  
Db 901 CTCGTCCACCTCCGATCCACAGCTCTGCTGACTGCACTGAAGCAAAACCCACATCAC 960  
QY 962 TGAGGTACAGCCTCTGCGGAGACCCCTGTCCACAGCGGCCACAGAGTCAGTGCACC 1021  
Db 961 TGAGGTACAGCCTCTGCGGAGACCCCTGTCCACAGCGGCCACCCAGAGTCAGTGCACC 1020  
QY 1022 TCATGCCACGGTTGGGACCCCACTCCCCCACTAACAGCGGCCACAGAAAGAGAGTGACAGC 1081  
Db 1021 TCATGCCACGGTTGGGACCCCACTCCCCCACTAACAGCGGCCACAGAAAGAGAGTGACAGC 1080  
QY 1082 ACCCGGGGCCACGACCTCAGTGGAGCTCTGGTCAAGTTAGCAGGAATCCCTGGGAAGA 1141  
Db 1081 ACCCGGGGCCACGACCTCAGTGGAGCTCTGGTCAAGTTAGCAGGAATCCCTGGGAAGA 1140  
QY 1142 AACCTCAGCCCTCTCTGTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGTCCGGT 1201  
Db 1141 AACCTCAGCCCTCTCTGTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGTCCGGT 1200  
QY 1202 CTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACACTTCTTGTGGGAGCTCTGCTTC 1261

Db 1201 CTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAACTTCTTGTGGAGCTCTGCTTC 1260  
QY 1262 CTCTACAGCCCTCGGAAGCCGCTCAAGAACTTCAACCCCTTTCAGAGACACCGACCAT 1321  
Db 1261 CTCTACAGCCCTCGGAAGCCGCTCAAGAACTTCAACCCCTTTCAGAGACACCGACCAT 1320  
QY 1322 GGACATCGCAACCAAGGGCCCTTCCCCACAGCAGGGACCTCTTCTTCTGTCCCTCC 1381  
Db 1321 GGACATCGCAACCAAGGGCCCTTCCCCACAGCAGGGACCTCTTCTTCTGTCCCTCC 1380  
QY 1382 GACTACAACCAACAGCAGCCGAGGGACGAAAGACAGCAGCCTTAGCCAAAGATCAAACTCAGC 1441  
Db 1381 GACTACAACCAACAGCAGCCGAGGGACGAAAGACAGCAGCCTTAGCCAAAGATCAAACTCAGC 1440  
QY 1442 GAAGACCAACGATGAAGCCCCCAACAGCCACGCCACAGCTGCCCGGACGAGGCCGACCA 1501  
Db 1441 GAAGACCAACGATGAAGCCCCCAACAGCCACGCCACAGCTGCCCGGACGAGGCCGACCA 1500  
QY 1502 GACGTGAGTGAAGTGAAGTTTCTCTCTCTCTGCGGTGAGTGTGGCTTCCCG 1561  
Db 1501 GACGTGAGTGAAGTGAAGTTTCTCTCTCTCTGCGGTGAGTGTGGCTTCCCG 1560  
QY 1562 GAAGACCTCACTGACCCAGAGTGGCAGAAAGGTGATGAGCAGCTCCACCGGAACTC 1621  
Db 1561 GAAGACCTCACTGACCCAGAGTGGCAGAAAGGTGATGAGCAGCTCCACCGGAACTC 1620  
QY 1622 CACGCCACCGCCTCACTTCCAGGTCTCTCTTACTGCGTGTGAGGAGGCTAACGGACA 1681  
Db 1621 CACGCCACCGCCTCACTTCCAGGTCTCTTACTGCGTGTGAGGAGGCTAACGGACA 1680  
QY 1682 TCAGCTGACCCAGGCTGTCCTGATGCAAAAGAGGGTGTGCTGCCCTAGCCTGGGCC 1741  
Db 1681 TCAGCTGACCCAGGCTGTCCTGATGCAAAAGAGGGTGTGCTGCCCTAGCCTGGGCC 1740  
QY 1742 CCACCGACAGTGCAGCTGCGTTACTGTGTGAGAGGTACCCAGAAAGTTCCTCATGAAG 1801  
Db 1741 CCACCGACAGTGCAGCTGCGTTACTGTGTGAGAGGTACCCAGAAAGTTCCTCATGAAG 1800  
QY 1802 GGCAGCATGTCCAAGCCCCCTAACCCAGATGTGGCAACAGGACCTCGCTCACATCCACC 1861  
Db 1801 GGCAGCATGTCCAAGCCCCCTAACCCAGATGTGGCAACAGGACCTCGCTCACATCCACC 1860  
QY 1862 GGAGTGTATGTATGGGAGGGGCTTCACTTGTTCAGAGGTGTCTTGGACTCACCTTG 1921  
Db 1861 GGAGTGTATGTATGGGAGGGGCTTCACTTGTTCAGAGGTGTCTTGGACTCACCTTG 1920  
QY 1922 GCACATGTTCTGTGTTTTCAGTAAAGAGAGACCTGATCACCCATCTGTGTGCTTCCATCCT 1981  
Db 1921 GCACATGTTCTGTGTTTTCAGTAAAGAGAGACCTGATCACCCATCTGTGTGCTTCCATCCT 1980  
QY 1982 GCATTAAATTCAGTGTGGGCCCAAAAAA 2015  
Db 1981 GCATTAAATTCAGTGTGGGCCCAAAAAA 2014

Search completed: January 12, 2004, 19:22:24  
Job time : 555 secs





Qy 281 AlaSerSerThrSerAspProAlaLeuProAspSerThrGluAlaLysProHisIle 300

Search completed: January 12, 2004, 16:41:16  
Job time : 450 secs



RESULT 2

US-09-620-312D-17

Sequence 17, Application US/09620312D

Patent No. 6569662

GENERAL INFORMATION:

APPLICANT: Tang, Y. Tom

APPLICANT: Liu, Chenghua

APPLICANT: Asundi, Vinod

APPLICANT: Zhang, Jie

APPLICANT: Ren, Feiyan

APPLICANT: Chen, Rui-hong

APPLICANT: Zhao, Qing A.

APPLICANT: Wehrman, Tom

APPLICANT: Xue, Aidong J.

APPLICANT: Yang, Yonghong

APPLICANT: Wang, Jian-Rui

APPLICANT: Zhou, Ping

APPLICANT: Ma, Yunqing

APPLICANT: Wang, Dunrui

APPLICANT: Wang, Zhiwei

APPLICANT: John Tillinghast

APPLICANT: Drmanac, Radoje T.

TITLE OF INVENTION: No. 6569662el Nucleic Acids and

FILE REFERENCE: 784CIP2B

CURRENT APPLICATION NUMBER: US/09/620,312D

CURRENT FILING DATE: 2000-07-19

PRIOR APPLICATION NUMBER: 09/552,317

PRIOR FILING DATE: 2000-04-25

PRIOR APPLICATION NUMBER: 09/488,725

PRIOR FILING DATE: 2000-01-21

NUMBER OF SEQ ID NOS: 1105

SOFTWARE: pt\_FL\_genes Version 1.0

SEQ ID NO 17

LENGTH: 2097

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (141)..(1757)

US-09-620-312D-17

Query Match	98.0%	Score 1975.2;	DB 4;	Length 2097;
Best Local Similarity	99.1%	Pred. No. 0;		
Matches 1997;	Conservative 0;	Mismatches 18;	Indels 1;	Gaps 1;
QY	1	GGAAAGGTATCCCGGAGAGACAGCCAGTCTCTGAGAGCAGCGGTGGCCGGTAGGA	60	
Db	82	GGAAAGGTATCCCGGAGAGACAGCCAGTCTCTGAGAGCAGCGGTGGCCGGTAGGA	141	
QY	61	TGGGCTGTCTCTGGGCTGTGGCTCTGCCCTTTCTTCTTCTGCTGGAGGTTGGGCT	120	
Db	142	TGGGCTGTCTCTGGGCTGTGGCTCTGCCCTTTCTTCTTCTGCTGGAGGTTGGGCT	201	
QY	121	CTGGAGCTCTGAGGCTCCCGGAGAGACAGCCAGCAGCAGTCTGCGATGACAAACGCTGA	180	
Db	202	CTGGAGCTCTGAGGCTCCCGGAGAGACAGCCAGCAGCAGTCTGCGATGACAAACGCTGA	261	
QY	181	CAGAGTCCCGCTATGACTCTAGCAGCCGCGCCAGCGGCTCTGGAACTCAAACGCTGA	240	
Db	262	CAGAGTCCCGCTATGACTCTAGCAGCCGCGCCAGCGGCTCTGGAACTCAAACGCTGA	321	
QY	241	GGGCTGAGACCTCTTCTAGGCTCTCAACCCAGCCGCGCTTCCAGAGCAGACCA	300	
Db	322	GGGCTGAGACCTCTTCTAGGCTCTCAACCCAGCCGCGCTTCCAGAGCAGACCA	381	
QY	301	GGGAGCCAGAGATTTCCCTGCAAGAGAGACAGGAGTTTCAAAAACATCTCCCA	360	
Db	382	GGGAGCCAGAGATTTCCCTGCAAGAGAGACAGGAGTTTCAAAAACATCTCCCA	441	
QY	361	ACTTCATGGTGTGATCGCCACCTCCGTGGAGACATCAGCCGCTAGTGGCAGCCCGGAGG	420	

Db	442	ACTTCATGGTGTGATCGCCACCTCCGTGGAGACATCAGCCGCTAGTGGCAGCCCGGAGG	501	
QY	421	GAGCTGGAATGACCACAGTTTCCAGACCATCACAGGAGTGTATCCGAGGAGCCATCTTTG	480	
Db	502	GAGCTGGAATGACCACAGTTTCCAGACCATCACAGGAGTGTATCCGAGGAGCCATCTTTG	561	
QY	481	ACACCTTTTGACCCGATGACAGCTCTGAAGAGGCAAGACACTCACAATGGACATATTGA	540	
Db	562	ACACCTTTTGACCCGATGACAGCTCTGAAGAGGCAAGACACTCACAATGGACATATTGA	621	
QY	541	CATTGGCTCACACCTCCACAGAAAGTAAAGGCTCTCTCAGAGAGCAGTGCCTCTTCCG	600	
Db	622	CATTGGCTCACACCTCCACAGAAAGTAAAGGCTCTCTCAGAGAGCAGTGCCTCTTCCG	681	
QY	601	ACGCCCCCATCCAGTCTATCACCCCGTCAAGGCTCAGAGAGCAGCGCTCTTCCGAGG	660	
Db	682	ACGCCCCCATCCAGTCTATCACCCCGTCAAGGCTCAGAGAGCAGCGCTCTTCCGAGG	741	
QY	661	GCCCCCATCCAGTCTATCACCCCGTCAAGGCTCAGAGAGCAGCGCTCTTCCGAGG	720	
Db	742	GCCCCCATCCAGTCTATCACCCCGTCAAGGCTCAGAGAGCAGCGCTCTTCCGAGG	801	
QY	721	CCCATCCAGTCTATCACCCCGTCAAGGCTCAGAGAGCAGCGCTCTTCCGAGG	780	
Db	802	CCCATCCAGTCTATCACCCCGTCAAGGCTCAGAGAGCAGCGCTCTTCCGAGG	861	
QY	781	CCCTGGTGTGCTGACAAACATCGAGGTTATTAATTCAGCATCACAGAAATAGAAACA	840	
Db	862	CCCTGGTGTGCTGACAAACATCGAGGTTATTAATTCAGCATCACAGAAATAGAAACA	921	
QY	841	CAACTTCCAGCATCCCTGGGGCTCAGACATAGATCTATCCCCCAGGAGGGTGAAGG	900	
Db	922	CAACTTCCAGCATCCCTGGGGCTCAGACATAGATCTATCCCCCAGGAGGGTGAAGG	981	
QY	901	CCTGTCCACCTCCGATCCACAGCTCTGCTGACTCCACTGAAGCAAAACACACATCA	960	
Db	982	CCTGTCCACCTCCGATCCACAGCTCTGCTGACTCCACTGAAGCAAAACACACATCA	1041	
QY	961	CTGAGGTACAGCCTCTGCTGAGACCCCTGTCCAGCCGCGCACACAGAGTCAAGTGCAC	1020	
Db	1042	CTGAGGTACAGCCTCTGCTGAGACCCCTGTCCAGCCGCGCACACAGAGTCAAGTGCAC	1101	
QY	1021	CTCATGCCACGGTTGGGACCCCACTCCCACTAAACAGCCGCGCACAGAAAGAGAGTGCAG	1080	
Db	1102	CTCATGCCACGGTTGGGACCCCACTCCCACTAAACAGCCGCGCACAGAAAGAGAGTGCAG	1161	
QY	1081	CACCGGGGCGCACGACCTCTGCTGAGCTCTGCTGAGTTCAGTTCAGAGTCCCTTGAAG	1140	
Db	1162	CACCGGGGCGCACGACCTCTGCTGAGCTCTGCTGAGTTCAGTTCAGAGTCCCTTGAAG	1221	
QY	1141	AAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAGTCTCAGAGAGCAGTCCGG	1200	
Db	1222	AAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAGTCTCAGAGAGCAGTCCGG	1281	
QY	1201	TCTCCATAGAGGCTGGGTGAGTGGGCAAAACAACTTCTTTGCTGGAGCTCTGCTT	1260	
Db	1282	TCTCCATAGAGGCTGGGTGAGTGGGCAAAACAACTTCTTTGCTGGAGCTCTGCTT	1341	
QY	1261	CCTCTACAGCCCTCGGAAGCCGCTTCAAGAACTTCAACCTTCCAGAGACACCGACCA	1320	
Db	1342	CCTCTACAGCCCTCGGAAGCCGCTTCAAGAACTTCAACCTTCCAGAGACACCGACCA	1401	
QY	1321	TGGACATCGCAACCAAGGGGCTTCCCAACAGCAGGAGCCCTTCTTCTTGTCCCTC	1380	
Db	1402	TGGACATCGCAACCAAGGGGCTTCCCAACAGCAGGAGCCCTTCTTCTTGTCCCTC	1461	
QY	1381	CGACTACACCAACAGCAGCCGAGGAGGAGCAAGCAGCCTTAGCCAGATCAACCTCAG	1440	
Db	1462	CGACTACACCAACAGCAGCCGAGGAGGAGCAAGCAGCCTTAGCCAGATCAACCTCAG	1521	
QY	1441	CGAAGACCAAGTGAAG-CCCCAACAGCCAGCCCGCTAGTCCCGGAGGCGCGACCA	1499	

Db 1522 CGAAGACCACGATGATGAGCCCAACAGCCACGCCACGACTGCCCGGACGAGCGCGACCA 1581  
QY 1500 CAGACGTGAGTGCAGGTGAAATGGAGGTTTCTCTCTCTGCGGCTGAGTGGCTTCCC 1559  
Db 1582 CAGACGTGAGTGCAGGTGAAATGGAGGTTTCTCTCTCTGCGGCTGAGTGGCTTCCC 1641  
QY 1560 CGGAAGACCTCACTGACCCACAGAGTGGCAGAAAGGTGATGCAGCAGCTCCACCGGAAC 1619  
Db 1642 CGGAAGACCTCACTGACCCACAGAGTGGCAGAAAGGTGATGCAGCAGCTCCACCGGAAC 1701  
QY 1620 TCCACGCCCCACGGCTCACTTCCAGGTTCTCTTACTGCTGTGTCAGGAGGCTAACGGA 1679  
Db 1702 TCCACGCCCCACGGCTCACTTCCAGGTTCTCTTACTGCTGTGTCAGGAGGCTAACGGA 1761  
QY 1680 CATCAGCTGCAGCCAGGCTATGCCGTATGCCAAAGAGGGTGTCTGCCCTTAGCCTGGC 1739  
Db 1762 CATCAGCTGCAGCCAGGCTATGCCGTATGCCAAAGAGGGTGTCTGCCCTTAGCCTGGC 1821  
QY 1740 CCCCACCGACAGACTGCAGTGCCTTACTGTGTGAGAGGTACCCAGAGGTTCCCATGA 1799  
Db 1822 CCCCACCGACAGACTGCAGTGCCTTACTGTGTGAGAGGTACCCAGAGGTTCCCATGA 1881  
QY 1800 AGGGCAGCATGTCCAAAGCCCCCTAACCCAGATGTGGCAACAGGACCCCTCGTCACTCCA 1859  
Db 1882 AGGGCAGCATGTCCAAAGCCCCCTGACCCAGATGTGGCAACAGGACCCCTCGTCACTCCA 1941  
QY 1860 CCGGAGTGTATGTATGGGGAGGGCTTACCTGTCCAGAGGTGCTTGGACTCACCT 1919  
Db 1942 CCGGAGTGTATGTATGGGGAGGGCTTACCTGTCCAGAGGTGCTTGGACTCACCT 2001  
QY 1920 TGGCACATGTTCTGTGTTTTCAGTAAAGAGAGACCTGATCACCCATCTGTGTCTTCCATC 1979  
Db 2002 TGGCACATGTTCTGTGTTTTCAGTAAAGAGAGACCTGATCACCCATCTGTGTCTTCCATC 2061  
QY 1980 CTGCATTAAATTCACCTCAGTGTGGCCCCCAAAAAA 2015  
Db 2062 CTGCATTAAATTCACCTCAGTGTGAAAAA 2097

RESULT 3

US-09-461-325-88  
; Sequence 88, Application US/09461325A  
; Patent No. 6475753  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: 94 Human Secreted Proteins  
; FILE REFERENCE: P2029P1  
; CURRENT APPLICATION NUMBER: US/09/461,325A  
; CURRENT FILING DATE: 1999-12-14  
; EARLIER APPLICATION NUMBER: PCT/US99/13418  
; EARLIER FILING DATE: 1999-06-15  
; EARLIER APPLICATION NUMBER: 60/089,507  
; EARLIER FILING DATE: 1998-06-16  
; EARLIER APPLICATION NUMBER: 60/089,508  
; EARLIER FILING DATE: 1998-06-16  
; EARLIER APPLICATION NUMBER: 60/089,509  
; EARLIER FILING DATE: 1998-06-16  
; EARLIER APPLICATION NUMBER: 60/089,510  
; EARLIER FILING DATE: 1998-06-16  
; EARLIER APPLICATION NUMBER: 60/090,112  
; EARLIER FILING DATE: 1998-06-22  
; EARLIER APPLICATION NUMBER: 60/090,113  
; EARLIER FILING DATE: 1998-06-22  
; NUMBER OF SEQ ID NOS: 532  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 88  
; LENGTH: 699  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (661)  
; OTHER INFORMATION: n equals a,t,g, or c

; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (694)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (696)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-09-461-325-88

Query Match 2.6%; Score 53; DB 4; Length 699;  
Best local Similarity 91.8%; Pred. No. 3e-05;  
Matches 56; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 1458 CCCCAACAGCCACGCTCCGAGCTGCCCGGACGAGCGCGACGAGTGCAGGTG 1517  
Db 22 CCCCAACAGCCACGCTCCGAGCTGCCCGGACGAGCGCGACGAGTGCAGGTG 81  
QY 1518 A 1518  
Db 82 A 82

RESULT 4

US-08-180-524-2  
; Sequence 2, Application US/08180524  
; Patent No. 5849537  
; GENERAL INFORMATION:  
; APPLICANT: Tripp, Matthew  
; APPLICANT: Lusk, Lance  
; APPLICANT: Rhodes, Thomas  
; APPLICANT: Huige, Nick  
; APPLICANT: Kot, Edward  
; APPLICANT: Chicoye, Etzer  
; APPLICANT: Barney, Michael C.  
; APPLICANT: Bower, Patricia A.  
; APPLICANT: Cronan, Charles L.  
; TITLE OF INVENTION: METHOD OF EXPRESSING ANTIFREEZE PROTEINS  
; TITLE OF INVENTION: IN YEAST  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Thad Kryshak, Quarles & Brady  
; STREET: 411 East Wisconsin Avenue  
; CITY: Milwaukee  
; STATE: Wisconsin  
; COUNTRY: USA  
; ZIP: 53202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: MSWORD Version 5.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/180,524  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/917,216  
; FILING DATE:  
; APPLICATION NUMBER: US 07/486,333  
; FILING DATE: 28-FEB-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/409,217  
; FILING DATE: 19-SEP-1989  
; ATTORNEY/AGENT INFORMATION:  
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; REFERENCE/DOCKET NUMBER: 66-005-9234-1  
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; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS: